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ツ ま A G G 7 X CACCCCACTCTCTTTCCCTCCCAACCCCATCTCACCCACGTCACCCAACACG ATG CTG GCG GGG GGC GTG AGG 151 S M P S P L L A C W Q P 27 AGO AND COD AGO COD ONE COT GOD TOO TOO CAS COD AND ONE CITY ONE ONE COT GOD TOA 211 V L S G S A T G C P P R C E C S A Q D R 47 STG CTG TCA GOC TCG GCC ACG GGC TGC CCG CCC CCC TGC GAG TGC TCC GCC CAG GAC CCC 271 AVLCHRKA FVAVPEGIP 57 SCT STG CTG TGC CAC CGC AAG CGC TTT GTG GCA GTC CCC GAG GGC ATC CCC ACC GAG ACG 331 RLLDLGK и я і к т і и о о FAS 37 THE CTT CTT GAC CTTA GGC AAG AAC CDC ATC AAA ACG CTT AAC CAG GAC GAG TTC GGC AGC 391 FPHLESLNENIVSAV 107 THE COST CALL CITY GAIG GAIG CITY GAIG CITY AAC GAIG AAC ATT GITY AGG GGC GITY GAIG CCC GGC 451 FNNL F NLRTL G L R S N 127 SEE THE AME AME CITE THE AME CITE COS AGS CITE GOT CITE COS AGE AME COS CITE AME CITE 511 I P L G V F T G L S N L T K L D T R E N 147 ATC CCC CTA GGC GTC TTC ACT GGC CTC AGC AAC CTG ACC AAG CTG GAC AGG AGG GAG AAC 571 LLDYMFQDLYN LKSLE 167 V I AMS ATC STT ATC CTA CTG GAC TAC ATG TTT CAG GAC CTG TAC AAC CTC AAG TCA CTG GAG 531 187 VGDNDLVY I H R A F TITE OCC GAE AAT GAE CITE GITE THE AITE TOT CHE COC OCC TITE AGE GGE CITE AAC AGE CITE 591 EQLTLEKCNLTSIPTEALSH 207 SAG CAG CTG ACT CTG GAG AAA TOC AAC CTG ACC TCC ATC CCC ACC GAG GCG CTG TCC CAC 751 LHGLIVLRLRHLNINAI 227 CTT CAC COC CTC ATC GTC CTG AGG CTC COG CAC CTC AAC ATC AAT GCC ATC CGG GAC TAC 311 247 RLYR LKVLE I S H W TOO THE AMS AGS CTG TAC CGA CTC AMS GTC TTG GAS ATC TCC CAC TGG CCC TAC TTG GAC 371 T M T P N C L Y G L N L T S L S I T H C 267 331 ACC ATG ACA COC AAC TOC CTC TAC GGC CTC AAC CTG ACG TCC CTG TCC ATC ACA CAC TGC 287 AVPY LAVRHLVYLR 391 ANT CTG ACC GCT GTG CCC TAC CTG GCC GTC CCC CAC CTA GTC TAT CTC CGC TTC CTC AAC 307 STIEGSMLHELLRL L S Y N P I 1051 CTC TCC TAC AAC CCC ATC AGC ACC ATT GAG GGC TCC ATG TTG CAT GAG CTG CTC CGG CTG 327 Q E I Q L V G G Q L A V V E P Y A CAS GAS ATC CAS CITS GTG GGC GGG CAS CITS GCC GTG GTG GAS CCC TAT GCC TTC CGC GGC 347 LNYLR V L N V S G N Q LTTLE E S CTC AAC THE CTG CGC GTG CTC AAT GTC TCT GGC AAC CAG CTG ACC ACA CTG GAG GAA TCA 1171

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3XC	:31	ಯ	ctc	ciz	736	ಯ	777	ಯ	CCC	ಯಾ	TOG	ಯ	cic	AAC	:::C	AAC	ಯ	ಯ	CAG	1291
5	_	_	2	÷	2	=	=	17	2	G	ĸ	=	F	ĸ	ם	F	2	פ	v	407
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CTA.		لنک 5	7 7 C	Y	المنات ع	7 200	TGC:	R CSC	R CSC	GCC	R CSC	I ATC	R CCC	ت محد	CCC	AAG	æ	CAS	CAG	427 1411
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CIC	ACA	. GTC	: 777	: cci	CAT	CCC	کح	czs	GNG	c:c	CCC	TAC	CCC	ಯ	GTA	CXC	CAC	λAC	œ	15 91
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GIG	: ccc	S : ACC	Y TA	: 100	: 000	: cac	. 100	CCC	CAT	: cxs	œ	XAC	AAG	ACC	. Lic	cci	TTC	ATC	TCC	1711
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F	C	L	v	L	L	F	L	W	s	R	G	K	G	34	T	ĸ	H	N	I	587
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FIG. 1B

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wit.	تبلات	سلام	CCC	CAC	فللك	CCT	334	GCG		Cit	JCT	CSC	GCT	cia	CIC	CCC	ccc	COC	Ciri	492
ם	P	A	A	ī.	A	A	a	۲.	v	þ	A	р	v	p	2	A	Δ	Ť.	R	165
																			CCA	552
P	R	2	P	V	Y	۵	D	G	P	A	G	P	D	A	E	E	A	G	D	185
çœ	ಯಾ	ccc	α	cic	TAC	CXC	CYC	CCC	ccc	CCC	œc	ccc	GAT	CCI	CAG	CXC	GCA	ĆCC	CAC	512
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E	T	P	0	v	0	P	E	<u> </u>	L	R	Y	L	L	G	R	I	<u>.</u>	A	G	205
تلات	منته	CCC	GAL	GIG	تنات	CCC	CAC	cra	TIG	AGG	TAC	TTG	CIG	CCA	CCG	ATT	CII	CCG	CCA	672
S	A	- D	s	E	G	v	A		Þ	R	R	t.	2	2	A	2	0	u	2	225
AGC	CCC	GAC	TCC	GAG	œ	GIG	GCA	GCC	ccs	CCC	ccc	CIC.	ccc	CCT	CCC	ccc	SAC	CAC	GAT	732
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<u>erc</u>	CCC	ici	CYC	cia	ccc	cci	CXC	ccc	ಯರ	cic	∞	GCG	cic	cic	CCI	ara	AAA	α	CIA	792
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تكان	ACC	cos	تحد	. ccc	. 23	GIG	CCI	CCA	CCC	CCC	CIC	TIG	CCA	ccc	TGA					840
GC3	CTGC		ATCC	e de la compa	C3.00	CTGG	GACC	CZCZ	ACTY:			ATC		ACC M	3634	16.00	بكنك	بوعين	CAC	91 9
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FIG. 2

ercer	ic Sim	ilari	Lcy: 49.308	Percent	Identity:	29.412		
T79)	1 2	MLAGGVRSMPSPL		LVLGSVLSGS ::. : .:			47
D49	5913	ı	MARLSTGK					44
T7	•	48			PEGIPTETRI			87
D4:	5913	45 '	TPQSTYREATTVD					84
T7	9	88	f PHLEELELNENI				IPLGVFTGLS	137
D4	5913	8 5						119
T7	9	138	NLTKLDTRENKIV					187
D4	5913	120	QLTTLHLEENQIS	EMTDYCLO	LSNLQELYI	MHNQISTIS	ANAFSGLKNL	169
т7	9	188	EQLTLERCNLTS:					237
D4	5913	170	LRLHLNSNKLKVI	DSRWFDST	PNLEILMIGE	npvigildm	NFRPLSNLRS	219
17	9	238	LEISHWPYLDTM					286
	5913		LVLAG.MYLTDVI	PGNALVGLDS	ELESLSFYDN	KLIKVPQLA	LOKVPNLKFL	
177	'9	287	NLSYNPISTIEGS	SMLHELLRL	DEIQLVG.GQ	LAVVE P Y	-	323
D4	5913	2 69	DLNKNPIHKIQE				DNLPELTKLE	318
T	79	324					SVGNLETLIL	360
ם י	15913	319	ATNNPKLSYIHR					368
T.	79	361	DSNPLACDCRLL	WVFRRRWRL	NFNRQQPT.C	ATPEFVQGI	KEFKDFPDVLL .:. : :	409
D	45913	3 69	HSNPLRCDCVIH	WINSNKTNI	RFMEPLSMFC	AMPPEYRG	QOVKEVLI	415
T'	79	410	PNYFT.CRRARI	RDRKAQQVF	VDEGHTVQFV	CRADGDPP1	PAILWLSPRKH	458
D	45913	416	QDSSEQCLPMIS	HDTFPNHLN	MDIGTTLFLE	CRAMAEPE	PEIYWVTPIGN	465
T	79	459	LVSAKS.NGRLT	VFPDGTLEV	RYAQVQDNGT	TYLCIAANA	GGNDSMPAHLH	507
ם	45913		KITVETLSDKYK	LSSEGTLEI	ANIQIEDSGE	YTCVAQNV(QGADTRVATIK	515
Ť	79	508	v			• • • • • •	RSYSPOWPHO:	518
D	45913	516	VNGTLLDGAQVI	.KIYVKQTES	HSILVSWKVN			
-	70	510	•	•	-	ARTSNO	PGEGEANSTRA	540

D 45913	5 66	: : :	615
T79	541	T/PFPFDIKTLIIATTMGFISFLGVVLFCLVLLFLWSRGKGNTKHNIE .: :: ::::::::::::::::::::::::::	588
D45913	6 16	TAAFALDISDHETSTALAAVMGSMFAVISLASIAIYIAKRFKRKNYHHSL	6 65
T79	589	IEYVPRKSDAGISSADAPRKFNMKMI	614
D45913	6 66	KKYMQKTSEIPLNEL.YPPLINLWEADSDKDKDGSADTKPTQVDTSRSYY	714

FIG. 3B

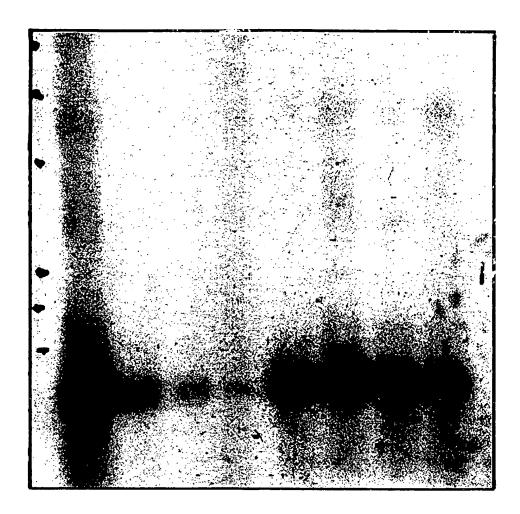


FIG. 4

E V I TRPILVIHDEQKGP 19 מכן אבם כמד ככם אול מום אול כאב כאב כאב כאב אול ככם ככם כאא פוד אבל מום אול מום אול מום אול מום אול מום אול מום 59 TLRNFCNWQKQHNP 5 39 GOT GOD CITE ACT CITS COS AAC TITT TOO AAC TOS CAS AAG CAS CAE AAC COS ACT GAC R D A E H Y D T A I L F T R Q D L C G S 59 COS GAT GCA GAS CAE TAT GAC ACA GCA ATT CTT THE ACE AGA CAS GAC THE TOT GGS TCE D T L G M A D V G T V C D 79 SRS P CAG ACA TOT GAT ACT CTT GGG ATG GCT GAT GTT GGA ACT GTG TGT GAT CCG AGC AGA AGC 239 99 Ξ C S V I E D D G L Q A A F T T λ TOO TOO GITC ATA GAA GAT GAT GGT TITA CAA GCT GCC TITC ACC ACA GCC CAT GAA TITA GGC 299 H V F N M P H D D A K Q C A S L N G V N 119 CAE GTG TTT AME ATG CCA CAT GAT GAT GCA AME CAE TGT GCC AGE CTT AMT GGT GTG AME Q D S H M M A S M L S N L D H S Q 139 CAG GAT TOT CAE ATG ATG GOT TOA ATG OTT TOT AAC CTT GAE CAE AGE CAE COT TOG TOT 159 CCT TOC AGT CCC TAC ATG ATT ACA TCA TIT CTG GAT AAT GGT CAT GGG GAA TGT TTG ATG 479 179 D K P Q N P I Q L P G D L P G T Y D A GAC AAG COT CAG AAT COO ATA CAG CTO COA GGC GAT CTO COT GGC ACO TOO TAG GAT GCC 539 199 NRQCQFTFGEDSKHCP D A A AME COS CAS TOC CAS TIT ACA TITT GGG GAS GAC TOC AAA CAS TGC COT GAT GCA GCC AGC 599 CTGTSGGVLVCQTK 219 T L W ACA TOT ACC ACC TITS TOSS TOT ACC COSC ACC TICT GOT COSC CITS CITS TOT CAA ACC AAA H F P W A D G T S C G E G K W C I N G K 239 CAC THE COS TOS COS GAT COSC ACE ACE TOT COSA GAA COSS ANA TOS TOT ATE AAC COSE AAG 719 259 C V N K T. D R K H F D T P F H G S W TOT GTG AAC AAA ACC GAC AGA AAG CAT TIT GAT ACG CCT TIT CAT GGA AGC TOG GGA ATG W G P W G D C S R T C G G G V Q Y T M 279 TOS COS COT TOS COA GAC TOT TOS AGA AGS TOC COT COA COA GTC CAS TAC AGG ATG AGG E C D N P V P K N G G K Y C E G K R V 299 GAA TOT GAC AME CEN GTC CEN AMG AMT GGA GGG AMG TAC TOT GAN GGC AMA CGN GTG GGC 399 319 S C N L E D C P D N N G K T THE AGA TOO TOT AME CIT GAG GAC TOT COR GAC ART ART GGR ARA ACC TIT AGA GAG GAR 959 Q C E A H N E F S K A S F G S G P A V E 339 CAA TOT GAA GCA CAC AAC GAG TIT TCA AAA GCT TCC TIT GCG AGT GCG CCT GCG GTG GAA 1019 359 Y A G V S P K D R C K L I C P K TOG ATT COD ANG THE GOT GOD GTC TOR COR ANG GAC AGG TOC ANG CTC ATC TOC CAR GOD 1079 379 T K G I G Y F F V L Q P K V V D G AMA GOD ATT GOD THE THE STT THE CAG COD AMG STT STR GAT GOT ACT COR TST AGE

PDSTS7C7QGQC7KAGCDRI 399 COA GAT TOO ACC TOT ONE TOT ONE CAA GGA CAS TOT OTA AAA GCT GGT TOT GAT COO ATC 1199 K K F D K C G V C G G N G S T C 419 I D S K ATA GAE TOO AAA AAG AAG TITT GAT AAA TOT GOT GTT TOO GOG GGA AAT GGA TOT ACT TOT 1259 K K I S G S V T S A K P G Y H D I I T 439 AMA AMA ATR TOR GGA TOR GTT ACT AGT GCA AMA COT GGA TAT CAT GAT ATC ACA ATT 1319 RNQRGSRNN 459 I I V K Q PTGATN COA ACT GOA GOO ACC AAC ATC GAA GTG AAA CAG COG AAC CAG AGG GOA TOO AGG AAC AAT 1379 G S F L A I K A A D G T Y I L N G D Y T 479 OCC AGO THE CHE GOD ATO ANA GOT GOT GAT GGC AGA THE ATT CHE AAT GGT GAC TAC ACT 1439 L S T L E Q D I M Y K G V V L R Y S G 499 THE TOO ACC THA GAG CAA GAC ATT ATG TAC AAA GGT GTT GTC TTE AGG TAC AGC GGC TCC 1499 LKEPLTIQ 519 ALERIRSFSP TOT SOO GOA THE GAA AGA ATT COO AGO THY AGO COT CHO AAA GAG COO THE ACO ATO CAG 1559 V L T V G N A L R P K I K Y T Y F V K K 539 GIT CIT ACT GTG GGC AAT GCC CTT CGA CCT AAA ATT AAA TAC ACC TAC TTC GTA AAG AAG 1619 SAWVIEEW 559 AIPTF SFN AMG AMG GAM TOT THE AMT GOT ATE COE ACT THE TOM GCA TOG GTC ATT GAM GAG TOG GGC 1679 SLKCLSH 579 ECSKTCGKGYKKR GAN, TOT TOT ANG ACC TOT GGG ANG GGT THE ANA ANA AGA AGC TTG ANG TOT CTG TCC CAT 1739 D G G V L S H E S C D P L K K P K H F I 599 CAR OCK COG GTG TTA TOT CAT GAG AGO TGT GAT COT TTA AAG AAA COT AAA CAT TTC ATA 1799 609 D F C T M A E C S * 1829 GAC TIT TOO ACA ATG GCA GAA TOO AGT TAA GREGITTINGTOGTETTACCTCTCACCCCAACCCAAACTGACGAAACCCTCCTCCACCGAAACCAACAACCCTCGACCG AMAGTTAGRACTATTACAACCCCTGTTTCCTCGTACTTATCAAATACTTAGTATCATGCCGGTTCGGAAATGAAAAGT 2224 ACCREMANCIER CRATTERICITA GRACCIESTITTA CETTRACATEGES CERCARAGGA GRACA ATROCA 2103 Tertical Concrete Acceptance (Contres of the Contres of the Contre CANTOTTCAACATCACAACACCAACATCAAAATAACCCAAATGCCTTCCTCTTTTTTCCACCATCTCA 2461 THECATGRACECTOCTTTCCGLATATCGATGRAAGAAGRAACTTGTGTCTCATGAAAATCAGTACAATCACAAGG 2698

COLTOLA ACCOCCUCA ACAAAAA TOA COTOTTUTA CAACA COCTOCCA CACOTTUTO COCACA TUTA CATUTO COCACA CATUTO COCACA TUTA CATUTO COCACA TUTA CATUTO COCACA CATUTO CATUT	2777
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ATTOGTTTGGTGTTGGTTGGTAGAAGGAGTATAGTTAGTT	3014
ATTTCTAATGAAAAAACTTTTAAATTATATCCCTTTTTTGGAAGTGCATATAAAATAGAGTATTTATACAATATATGT	30 93
THETHERNATIANACIACACTUTUTECHANNANANANACCCCCCCCCCCCCCCCCCCCCCCCCCC	3147

FIG. 5C

251 DQSMADFHGSGLXHYLLTT_SVAARFYXHPSIRNSISLWVXILVIYFEQ	300
.: 1	11
301 KGPEVTSMAALTIRNECSWORQHNSPSDROPEHYDTAILETRODIAGSET	
12 REPEVES WALTER FOR CROPPED RUAD HYD TAILFTRODLESSOT	
351 COTLGOADVGTVCDPSRSCSVTEDDGLQAAFTTAHELGHVFNMPHDDAKK	400
62 CDTLCMADVGTVCDPSRSCSVTEDDGLQAAFTTRHELGHVFNMPHDDARQ	111
401 CASLNOVSGDSHIMASIG_SSICHSQPWSPCSAYMVTSFILMEHSECLMOK	450
112 CASILAGVAQOSHMASMI.SAILDHSQFWSPCSAYMITSFILDAGHGET MIX	: 161
451 POMPIKLPSDLPGTLYDANROCOFTFGPESKEEPDAASTCTTLWCTGTSG	
. :	
501 GLLVCQTXHFFWADGTSCGEGKWCVSGKCVNKGTDYKHFATPVHGSKGFWG	3 550
:	
551 PMGDCSRICGGGGQYTMRDCTNPVPRNGGKYCDGKRVRYRSCNIPDCPD	l
262 PMGDCSRTCGGGVQYTHRECEMPVPRMGGRYGEGRRVRYRSGMLEDGPD	•
601 NGKTFREEQCEAHNEYSKASFCREEPTVENTPKYAGVSPKORCKLTCANK	3 650
312 NGKTFREEQCEAHNEFSKASFGSGPAVENTPKYAGVSPKORCKLICQAKI	3 361
651 IGYFFVLQPRVVDGTPCSPDSTSVCVQGQCVXAGCDRIIDSAKKFDKQG	
362 IGYFFVLQPKVVDGTPCSPDSTSVCVQGQCVKAGCDRIIDSKKKFDKGG	v 411
701 CGGRGSTCKKMSGIVTSTRPGYHDIVTIPAGATNIEVKHRNQRGSRNNG	S 750
751 FLAIRAADGTYILMENFTLSTLEODLTYKGTVLRYSGSSAALERIRSFS	•
	1
462 FLAIKAADTYILMEDYTLSTLEODDMYKGVVLKYSGSSAALERIRSFS	
801 LEPLTIQUENCHALEPRINFTYFMERTESFNAIPIFSEWIFFNGE	
512 LREPLTIQVLTVCRALRPKIRYTYFVRAGRESFNAIPTFSAWVIEDWGE	
	•
901 WSPCSKTCGKGYKKRTLKCVSHDGGVLSNESCDPLKQKHYTDFCTLTG	
561 CSKTCGKGYKKRSLKCLSHDGGVLSHESCDPLKKPRHFIDFCTMAE	
951 S* 951	
m FIG. 6	

gtgo	cctad											Gly			ttg Leu	50
				cag Gln												98
				gcc Ala 35												146
				cct Pro												194
				ggt Gly												242
tgg Trp	gca Ala 80	gat Asp	ggc Gly	acc Thr	agc Ser	tgt Cys 85	gga Gly	gaa Glu	G1y 9 9 9	aag Lys	tgg Trp 90	tgt Cys	gtc Val	agt Ser	ggc	290
				aag Lys												3 38
gga Gly	agc Ser	tgg Trp	gga Gly	cca Pro 115	tgg Trp	gga Gly	ccg Pro	tgg Trp	gga Gly 120	gac Asp	tgc Cys	tca Ser	aga Arg	acc Thr 125	tgt Cys	3 86
ggt Gly	ggt Gly	gga Gly	gtt Val 130	caa Gln	tac Tyr	aca Thr	atg Met	aga Arg 135	gaa Glu	tgt Cys	gac Asp	aac Asn	cca Pro 140	gtc Val	cca Pro	434
				aag Lys												482
				gac Asp												530
				gc g Ala												578
g ag Glu	ccc Pro	act Thr	gta Val	gag Glu 195	tgg Trp	aca Thr	ccc Pro	aag Lys	tac Tyr 200	Ala	Gly	gtc Val	Ser	cca Pro 205	aag Lys	6 26

gac Asp	agg Arg	tgc Cys	aag Lys 210	ctc Leu	acc Thr	tg t Cys	ga a Glu	gcc Ala 215	aaa. Lys	ggc Gly	att Ile	ggc Gly	tac Tyr 220	ttt Phe	ttc Phe	674
												agt Ser 235				722
												ggc Gly				770
												gtt Val				818
												act Thr				866
												gcc Ala				914
												aat Asn 315				962
												aat Asn				1010
	Leu	Ser	Thr	Leu	Glu	Gln	Asp	Leu	Thr	Tyr	Lys	ggt Gly	Thr			1058
					Ser					Arg		cgc Arg			Ser	1106
				Pro					Val			gta Val				1154
			Lys					Тух				aag Lys 395	Lys		g ag Glu	1202
		Ası					Phe					. Ile		Glu		1250

```
Gly Glu Cys Ser Lys Thr Cys Gly Ser Gly Trp Gln Arg Arg Val Val
                    420
                                                           430
cag tgc aga gac att aac gga cac cct gct tcc gaa tgt gca aag gaa
Gln Cys Arg Asp Ile Asn Gly His Pro Ala Ser Glu Cys Ala Lys Glu
                435
gtg aag cca gcc agt acc aga cct tgt gca gac ctt cct tgc cca cac
                                                                 1394
Val Lys Pro Ala Ser Thr Arg Pro Cys Ala Asp Leu Pro Cys Pro His
            450
                                455
tgg cag gtg ggg gat tgg tca cca tgt tcc aaa act tgc ggg aag ggt
                                                                 1442
Trp Gln Val Gly Asp Trp Ser Pro Cys Ser Lys Thr Cys Gly Lys Gly
        465
                            470
tac aag aag aga acc ttg aaa tgt gtg tcc cac gat ggg ggc gtg tta
                                                                 1490
Tyr Lys Lys Arg Thr Leu Lys Cys Val Ser His Asp Gly Gly Val Leu
    480
tca aat gag agc tgt gat cct ttg aag aag cca aag cat tac att gac
                                                                 1538
Ser Asn Glu Ser Cys Asp Pro Leu Lys Lys Pro Lys His Tyr Ile Asp
495
                    500
ttt tgc aca ctg aca cag tgc agt taagaggcgt tagaggacaa ggtagcgtgg
Phe Cys Thr Leu Thr Gln Cys Ser
                515
ggaggggctg atacactgag tgcaagagta ctggagggat ccagtgagtc aaaccagtaa 1652
gcagtgaggt gtggcaagga ggtgtgtgta ggggatacat agcaaaggag gtagatcagg 1712
acactaccct gccagttaca ttctgataag gtagttaatg aggcacagta gcatctgaaa 1772
gaccatacag agcactaagg agccccaaag cactattagt atctctttc ttatatctat 1832
cgcccaaata attttcagag tctggcagaa gccctgttgc actgtactaa ctagatactt 1892
cttatcacaa agattgggaa aggcaaagca gaaagatggt aagactgggt ttcaaacaag 1952
gettggttte aateaetgga ggeaaggagg aggggaeaaa caagateatt attegaagte 2012
gctggttgct gtggttttac ggaaggttga tgcatcattc ctatcaacag tgaaaagttc 2072
agettgttea aegtgacaga aaggeteate teegtgaaag ageteetgat ttettettae 2132
accatctcag ttcttaacta tagttcatgt tgaggtagaa acaattcatc tatttataaa 2192
atgtacattg gaaaaaaaa gtgaagttta tgaggtacac ataaaaactg aaggaaacaa 2252
tgagcaacat gcctcctgct ttgcttcctc ctgaggtaaa cctgcctggg gattgaggtt 2312
gtttaagatt atccatggct cacaagaggc agtaaaataa tacatgttgt gccagagtta 2372
gaatggggta tagagatcag ggtcccatga gatggggaac atggtgatca ctcatctcac 2432
atgggagget getgeaggt ageaggteea eteetggeag etggteeaac agtegtatee 2492
tggtgaatgt ctgttcagct cttctactga gagagaatat gactgtttcc atatgtatat 2552
gtatatagta aaatatgtta ctatgaattg catgtacttt ataagtattg gtgtgtctgt 2612
tccttctaag aaggactata gtttataata aatgcctata ataacatatt tatttttata 2672
catttatttc taatgataaa acctttaagt tatatcgctt ttgtaaaagt gcatataaaa 2732
atagagtatt tatacaatat atgttaacta gaaataataa aagaacactt ttgaatgtgt 2792
atgcctattt totggagtgg gattaactto tgggcaagaa atotgatgag acacaaacat 2852
tggacttcaa gacagtttta aattttgggt aaatgaactg tatttcctgt ttatagacgt 2912
actaataaaa aagaagttga tgatgtcttt agtggtaaga ttgttactaa tgtggttggc 2972
aaattgctgt aaagagccag atagtaagca tttatggcat tgtaggctat ctttcctgcc 3032
acaaccatgt gacagtgagt gctttgtagg actgagagca gccataaatg acatgtaaat 3092
```

ggg gag tgc tcc aag aca tgc ggc tca ggt tgg cag aga aga gta gtg

1298

cctga ccga ccag ggct	agago gctco cccto gggct	cc c ct g gc g tg g	cggc ccct aggg ggct	tccto agago cgcgo	c ago c ggo c cg	cccg actg accg cgcc atg	etac ggct ggcg ggca cag	ggce gage agae gtg	cagg gccc gtgt gaga agc	gcc gcg tgt cat gag	tcgg tggg agga gcga agg	cctc acag ggag ttgg	cg c ac a ac c tg a ctg	gacg gagg gagg ccaa gca		120 180 240.
ggt Gly	atg . Met .	aga Arg	agc Ser	atg Met 15	ccc Pro	agc Ser	ccc Pro	ctc Leu	ctg Leu 20	gcc Ala	tgc Cys	tgg Trp	cag Gln	CCC Pro 25	atc Ile	400
ctc Leu	ctg Leu	ctg Leu	gta Val 30	ctg Leu	Gly	tca Ser	gtg Val	ctg Leu 35	tca Ser	ggc Gly	tct Ser	gct Ala	aca Thr 40	ggc Gly	tg c Cys	448
ccg Pro	ccc Pro	cgc Arg 45	tg c Cys	gag Glu	tg c Cys	tca Ser	gcg Ala 50	cag Gln	gac Asp	cga Arg	gcc Ala	gtg Val 55	ctc Leu	tgc Cys	ca c His	496
cgc Arg	aaa Lys 60	cgc Arg	ttt Phe	gtg Val	gcg Ala	gtg Val 65	ccc Pro	g ag Glu	ggc Gly	atc Ile	ccc Pro 70	acc Thr	gag Glu	act Thr	cgc Arg	544
ctg Leu 75	ctg Leu	gac Asp	ctg Leu	ggc Gly	aaa Lys 80	aac Asn	cgc Arg	atc Ile	aag Lys	aca Thr 85	ctc Leu	aac Asn	cag Gln	gac Asp	g ag Glu 90	5 92
ttt Phe	gcc Ala	agc Ser	ttc Phe	cca Pro 95	cac His	ctg Leu	gag Glu	gag Glu	cta Leu 100	gaa Glu	ctc Leu	aat Asn	gaa Glu	aac Asn 105	atc Ile	640
gtg Val	agc Ser	gcc Ala	gtg Val 110	gag Glu	cca Pro	ggc Gly	gcc Ala	ttc Phe 115	aac Asn	aac Asn	ctc Leu	ttc Phe	aac Asn 120	ctg Leu	agg Arg	6 88
act Thr	ctg L eu	999 Gly 125	Leu	cgc Arg	agc Ser	aac Asn	cgc Arg 130	Leu	aag Lys	ctt Leu	atc Ile	ccg Pro 135	Leu	ggc Gly	gtc Val	736
ttc Phe	acc Thr 140	ggc	ctc Leu	agc Ser	aac Asn	ttg Leu 145	acc Thr	aag Lys	ctg Leu	gac Asp	atc Ile 150	Ser	gag Glu	aac Asn	a ag Lys	784
atc Ile 155	Val	ato Ile	ctg Leu	cta Leu	gac Asp 160	Tyr	atg Met	ttc Phe	caa Gln	gac Asp 165	Leu	tac Tyr	aac Asn	ctc Leu	aag Lys 170	832
tcg Ser	ctg Leu	gag	g gto ı Val	ggc Gly 175	Asp	aac Asn	gac Asp	cto Leu	gtc Val 180	. Tyr	Ile	tcc Ser	His	cga Arg 185	Ala	880

										tgc Cys		928
										ctc Leu	atc Ile	976
	-		_				_		_	tac Tyr	tcc Ser	1024
		_		_						tgg Trp	ccc Pro 250	1072
					cgg Arg				ii.C	QI	R	1110

FIG. 8B

ctc	ctgg acag	atg cca	tg cg gt cc	cagc gccc	gt c	agag cgga	cgct gccc	g gc	getg tegt	tgcc tggg	taa gca	gc a M	tg g	ica a	gcgcac gg tcg ly Ser	11'
ccg Pro 5	ctg Leu	ctc Leu	tgc Cys	Gly 99 9	ccg Pro 10	cgg Arg	gcc Ala	g gg	ggc	gtc Val 15	ggc	att Ile	ttg Leu	gtg Val	ctg Leu 20	169
ctg Leu	ctc Leu	ttg Leu	ggc Gly	ctt Leu 25	ctg Leu	agg Arg	ctg Leu	ccc Pro	ccc Pro 30	acc Thr	ctg Leu	tca Ser	gcg Ala	agg Arg 35	ccc Pro	213
gtg Val	aag Lys	gag Glu	Pro	cgc Arg	agt Ser	ctg Leu	agc Ser	gca Ala 45	gca Ala	tcc Ser	gcg Ala	ccc Pro	ttg Leu 50	gtt Val	g ag Glu	261
acg Thr	agc Ser	act Thr 55	ccc Pro	ctc Leu	cgc Arg	ttg Leu	cgt Arg 60	cgg Arg	gcc Ala	gtg Val	ccc Pro	cga Arg 65	gga Gly	gag Glu	gcg Ala	309
gcg Ala	ggt Gly 70	gcg Ala	gtg Val	cag Gln	g ag Glu	ctg Leu 75	gcg Ala	cgg Arg	gcg Ala	ctg Leu	gcg Ala 80	cac His	ctg Leu	ctg Leu	gag Glu	357
gcc Ala 85	gag Glu	aga Arg	cag Gln	gaa Glu	cgc Arg 90	gcg Ala	cgt Arg	gct Ala	gag Glu	gcg Ala 95	cag Gln	gag Glu	gct Ala	gag Glu	gat Asp 100	405
cag Gln	cag Gln	gcg Ala	cgt Arg	gtc Val 105	ctg Leu	gcg Ala	cag Gln	ctg L eu	ctg Leu 110	cgc Arg	gcc Ala	tgg Trp	ggc Gly	tct Ser 115	ccg Pro	453
cgt Arg	gcc Ala	tcg Ser	gac Asp 120	ccg Pro	ccc Pro	ttg Leu	gcc Ala	ccc Pro 125	gac Asp	gat Asp	gac Asp	ccg Pro	gac Asp 130	gct Ala	cca Pro	`501
gct Ala	gca Ala	cag Gln 135	ctc Leu	gcc Ala	cgt Arg	gct Ala	ctg Leu 140	ctc Leu	cga Arg	gct Ala	cgc Arg	cta Leu 145	gac Asp	ccc Pro	ggc Gly	549
ccc Pro	cag Gln 150	tgt Cys	atg Met	atg Met	atg Met	gcc Ala 155	cca Pro	ctg Leu	gcc Ala	cag Gln	acg Thr 160	tcg Ser	agg Arg	atg Met	ccg Pro	5 97
gcg Ala 165	acg Thr	aga Arg	ctc Leu	ctg Leu	acg Thr 170	tgg Trp	acc Thr	ctg Leu	agc Ser	tgc Cys 175	tgag	gtac	tt g	gctag	iggcgg	650
araa	acca	.gg a	tttg	ggto	c cg	aggt	gccc	cct	gaga	acg	tact	aaaa	rac t	ctac	gatct tacgc cctga	770

FIG. 9B